M28 H
1878-79

CATALOGUE

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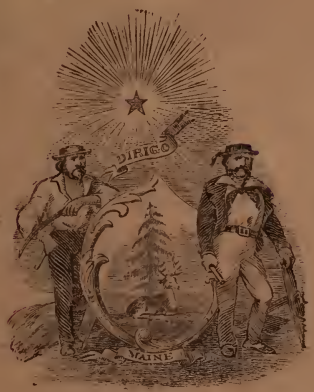
OF THE

MAINE STATE COLLEGE OF AGRICULTURE

AND THE

MECHANIC ARTS,



ORONO, MAINE, 1878–9.

AUGUSTA:
SPRAGUE, OWEN & NASH, PRINTERS TO THE STATE.
1879.

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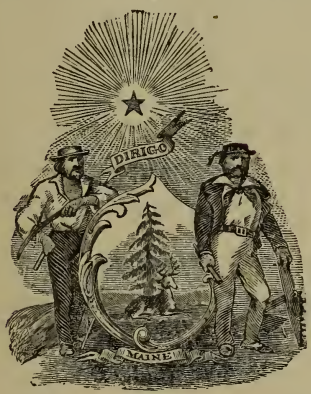

ORONO, MAINE, 1878–9.

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TRUSTEES.

Hon. ABNER COBURN, Skowhegan.
President.

Hon. LYNDON OAK, Garland.
Secretary.

Hon. WILLIAM P. WINGATE, Bangor,
Hon. SYLVANUS T. HINCKS, Bucksport,
Hon. JAMES C. MADIGAN, Houlton,
Hon. CALEB A. CHAPLIN, Harrison,
Rev. SAMUEL F. DIKE, Bath,
Hon. SAMUEL L. BOARDMAN, Augusta,
Secretary Maine Board of Agriculture, ex-offic

Treasurer:
Col. EBEN WEBSTER, Orono.

Executive Committee:
Hon. WILLIAM P. WINGATE,
Hon. SYLVANUS T. HINCKS,
Hon. LYNDON OAK.

Examining Committee:
Hon. SELDEN CONNOR,
Rev. CHARLES F. ALLEN, D. D.,
Rev. SAMUEL F. DYKE, D. D.

FACULTY.

MERRITT C. FERNALD, A. M.,
President and Professor of Physics and Mental and Moral Science.

ALFRED B. AUBERT, B. S.,
Professor of Chemistry.

WILLIAM A. PIKE, C. E.,
Professor of Engineering and Secretary of the Faculty.

CHARLES H. FERNALD, A. M.,
Professor of Natural History.

ALLEN E. ROGERS, A. B.,
Instructor in Modern Languages and Military Science.

GEORGE H. HAMLIN, C. E.,
Professor of Drawing and Field Engineering and Librarian.

JOSEPH R. FARRINGTON,
Instructor in Agriculture.

G. T. RICH,
Farm Superintendent.

HENRY M. LANDER, *Steward.*

NOTE.—Instruction in Mathematics is given at present by the President and Prof. Hamlin.

STUDENTS.

SENIOR CLASS.

Bean, Harry Percy,	Bangor.
Blake, Edward Josiah,	North Bridgton.
Crosby, Simon Percy,	Dexter.
Cutter, John Dana,	Brewer.
Decker, Wilbur Fisk,	Bowdoinham.
Decrow, David Augustus,	Bangor.
Ferguson, Willis Edwin,	Bangor.
Gibbs, Charles Wingate,	Glenburn.
Gould, Annie May,	Stillwater.
Holt, Nellie Maud,	Orono.
Kidder, Frank Eugene,	Bangor.
Libby, Mark D.,	Riverside.
Loring, Charles Sewall,	Phipsburg.
Merrill, George Perkins,	Auburn.
Meserve, John William,	Rockland.
Moore, Arthur Lee,	Limerick.
Morse, Charles Adelbert,	Bangor.
Potter, Fred David,	Waldoboro'.
Shaw, Alton Jhacelous,	Auburn.
Vinal, Percia Ann,	Orono.
Warren, George Otis,	Fryeburg.
Webster, Herbert,	Orono.

JUNIOR CLASS.

Bartlett, James Monroe,	Litchfield.
Brown, Albert Hinckley,	Oldtown.
Davis, Marcia,	Stillwater.
Elliot, Fred Burton,	Bowdoin.
Farrington, Sarah Perkins,	Orono.
Fernald, Charles Wilbur,	South Levant.
Fickett, Fred Wilden,	Etna.
Lufkin, George William,	North Yarmouth.
Mansfield, Frank Albert,	Camden.
Matthews, Annie A.,	Stillwater.
Murray, Henry Wilson,	Solon.
Oak, Willis Laurens,	Garland.
Patten, Franklin Rand,	Hampden.
Pease, Charles Truman,	Bridgton.
Purinton, James Frank,	Bowdoin.
Webster, Daniel, Jr.,	Bangor.

SOPHOMORE CLASS.

Adams, Henry Walton,	Bowdoin.
Andrews, Henry Harris,	Montross, Va.
Boynton, Lorin Thompson,	Ashland.
Brown, Henry William,	Orono.
Buck, Clara Louise,	Stillwater.
Colburn, Fannie Eliza,	Orono.
Farrington, Edward Holyoke,	Orono.
Farrington, Oliver Cummings,	Orono.
Fogg, Charles Henry,	Biddeford.
Ingalls, Adam Theodore,	South Bridgton.
Johnson, Robert John,	Portland.
Libby, Clara Alice,	Orono.
McIntyre, Horace F.,	Waldoboro'.
Moor, Charles Lincoln,	Hartland.
Murray, Benjamin Franklin,	Solon.
Osborn, Edwin Winthrop,	Pembroke.
Pease, Oscar Leroy,	Stillwater.
Plaisted, Harold Mason,	Bangor.
Ring, Alice Isabel,	Orono.
Ring, May Lilian,	Orono.
Smith, Roscoe Loring,	East Orrington.
Sturtevant, George Washington,	Bowdoinham.
Tidd, Charles Plummer,	Springfield.
Wade, Frank Swan,	Athens.
Wales, William Gorton,	Hamphen.
Weeks, Frank Benjamin,	Orono.
Wilson, George Henry,	Orono.
Wilson, John Barrows,	Orono.
Wyman, Levi Augustus,	Ellsworth.

FRESHMAN CLASS.

Bartlett, Joshua Burr,	Ashland.
Bickford, Charles Swan,	Belfast.
Boynton, Jacob Leighton,	Ashland.
Brown, Charles Weston,	Hampden.
Buzzell, Stephen Jennings,	Argyle.
Chapin, Charles Edward,	Orrington.
Dunn, Charles Lincoln,	Ashland.
Dunton, Oscar Howard,	Hampden.
Flint, Walter,	West Baldwin.
Fuller, George Ripley,	Tremont.
Garland, Charles Clinton,	Great Works.
Gould, Joseph French,	Stillwater.
Greenlaw, John Irving,	Brownfield.
Howard, Will Russell,	Belfast.
Hurd, Alonzo L.,	Brownfield.
Jameson, Wesley Joseph,	Warren.
Keith, Alfred Justin,	Oldtown.
Kelleher, Bartholomew Patrick,	Orono.
Keniston, Frederic Andrew,	Ellsworth.
Kimball, Frank Issacher,	Alfred.
Nason, Walter Herbert,	Hampden.
Page, Parker James,	Orono.
Patten, James Herbert,	Newport.
Reed, Frederic Martin,	Bangor.
Snow, Gleason Cyprian,	North Orrington.
Starrett, Avery Palmer,	Warren.
Tilley, Lewis Kossuth,	Castle Hill.
Todd, Frank H.,	Georgetown.
Trafton, Eugene M.,	Georgetown.
Webster, Eben Crowell,	Orono.
Wight, Willard Alberto,	Windsor.
Woodward, Daniel Carr,	Winthrop.

SPECIAL COURSE.

Atwood, Horace Wood,	Northbridge, Mass.
Carver, Benjamin Vanness,	Carver's Harbor.
Hatch, William Ham,	Lisbon.

SUMMARY.

Seniors,	22	Special,	3
Juniors,	16		—
Sophomores,	29	Total,	102
Freshmen,	32		

OFFICERS OF THE COBURN CADETS.

MAJOR—A. E. ROGERS.

ADJUTANT—J. W. Meserve. QUARTERMASTER—F. D. Potter.

SERGT. MAJOR ——— ——. QUARTERMASTER SERGT.—G. W. Lufkin.

COMPANY A.	COMPANY B.
Captain, E. J. Blake.	Captain, H. Webster.
Senior 1st Lieut., M. D. Libby.	Senior 1st Lieut., W. F. Decker.
Junior 1st Lieut., —— ———.	Junior 1st Lieut., C. A. Morse.
Second Lieut., G. P. Merrill.	Second Lieut., J. D. Cutter.
1st Sergeant, B. V. Carver.	1st Sergeant, —— ———.
2d Sergeant, C. T. Pease.	2d Sergeant, G. W. Lufkin.
3d Sergeant, —— ———.	3d Sergeant, F. W. Fickett.
4th Sergeant, —— ———.	4th Sergeant, —— ———.
1st Corporal, H. W. Brown.	1st Corporal, G. W. Sturtevant.
2d Corporal, H. H. Andrews.	2d Corporal, —— ———.
3d Corporal, W. A. White.	3d Corporal, C. L. Moor.
4th Corporal, —— ———.	4th Corporal, L. T. Boynton.

PRIZES FOR 1878.

Coburn Prize for best Sophomore Declamation, awarded to C. M. Allen.

Coburn Prize for best Junior Essay, awarded to S. P. Crosby.

DESIGN OF THE INSTITUTION.

It is the design of the Maine State College of Agriculture and the Mechanic Arts, to give the young men of the State who may desire it, at a moderate cost, the advantages of a thorough, liberal and practical education. It proposes to do this by means of the most approved methods of instruction, by giving to every young man who pursues the course of study an opportunity practically to apply the lessons he learns in the class-room, and by furnishing him facilities of defraying a part of his expenses by his own labor.

By the act of Congress granting public lands for the endowment and maintenance of such colleges, it is provided that the leading object of such an institution shall be, "without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to Agriculture and the Mechanic Arts."

While the courses of study fully meet this requisition, and are especially adapted to prepare the student for agriculture and mechanical pursuits, it is designed that they shall be also sufficiently comprehensive, and of such a character, as to secure to the student the discipline of mind and practical experience necessary for entering upon other callings or professions.

CONDITIONS OF ADMISSION.

Candidates for admission to the Freshman class must be not less than fifteen years of age, and must pass a satisfactory examination in Arithmetic, Geography, English Grammar, (especial attention should be given to Orthography, Punctuation and Capitals) History of the United States, Algebra as far as Quadratic Equations, and five books in Geometry.

Although the knowledge of Latin is not required as a condition of admission, yet the study of that language is earnestly recommended to all who intend to enter this institution.

Candidates for advanced standing must sustain a satisfactory examination in the preparatory branches, and in all the studies previously pursued by the class they propose to enter.

Satisfactory testimonials of good moral character and industrious habits will be rigidly exacted.

The day after commencement, which is the last Wednesday of June, and the day of the beginning of the first term, are the appointed times for the examination of candidates.

COURSES OF INSTRUCTION.

Five full courses are provided, viz: A course in Agriculture; in Civil Engineering; in Mechanical Engineering; in Chemistry; and in Science and Literature. The studies of the several courses are essentially common for the first two years.

There will be regular exercises during the four years in English Composition, Declamation and Military Tactics. Lectures will be given to the Freshman class, on Meteorology, Physical Geography and Botany; to the Sophomore class, on Chemistry, Horticulture and Practical Agriculture; to the Junior class, on Anatomy, Physiology, Physics, Astronomy and English Literature; and to the Senior class, on Rural Law, Mineralogy, Geology, Stock Breeding, Cultivation of Grasses and Cereals.

SPECIAL COURSE.

Students may be received for less time than that required for a full course, and they may select from the studies of any class such branches as they are qualified to pursue successfully. Students in a Special Course are not entitled to degrees, but may receive certificates of proficiency.

DEGREES.

The full course in Civil Engineering entitles to the Degree of Bachelor of Civil Engineering; the full course in Mechanical Engineering, to the Degree of Bachelor of Mechanical Engineering; the full course in Agriculture, Chemistry, or Science and Literature, to the Degree of Bachelor of Science.

Three years after graduation, on presentation of a thesis with the necessary drawings, and proof of professional work or study, the Bachelors of Civil Engineering may receive the Degree of Civil Engineer; the Bachelors of Mechanical Engineering, the Degree of Mechanical Engineer; the Bachelors of Science, the Degree of Master of Science.

COURSES OF STUDY.

FIRST YEAR.

First Term.	*Second Term.*
Physical Geography,	French,
Meteorology,	Algebra and Geometry,
Algebra, Rhetoric.	Farm Drainage and Botany.
P. M. Labor on Farm.	P. M. Book-Keeping and Labor.

SECOND YEAR.

First Term.	*Second Term.*
French and Farm Implements,	Mechanical Cultivation of the Soil and Surveying, or (L) History of England,
Botany and General Chemistry,	English Literature and Physics,
Trigonometry.	Analytical Geometry and Calculus or Qualitative Chemistry.
P. M. Free Hand Drawing and Chemistry.	P.M. Mechanical Drawing and Field Work.

THIRD YEAR.

Course in Agriculture.

First Term.	*Second Term.*
Physics,	Zoology and Entomology,
Physiology, Human Anatomy and Hygiene,	German,
German,	Astronomy and Mechanics.
Agricultural Chemistry, or	P. M. Chemistry and Experimental Farming, or
*English Literature.	*Analysis of American Authors.
P. M. Chemistry, or	
*Analysis of English Authors.	

Course in Civil Engineering.

First Term.	*Second Term.*
Calculus,	Astronomy,
Hencks' Field Book,	Descriptive Geometry,
Physics,	First Part of Rankine's Civil Engineering and Mechanics,
German.	German.
P. M. Field Work and Shading.	P. M. Isometric and Cabinet Projection and Perspective.

Course in Mechanical Engineering.

First Term.	*Second Term.*
Calculus,	Astronomy,
Machinery and Mill Work,	Descriptive Geometry,
Physics,	Machinery and Mill Work, German.
German.	P. M. Isometric and Cabinet Projection and Perspective.
P. M. Machine Drawing and Shading.	

Courses of Study—*Concluded.*

Course in Chemistry.

First Term.	*Second Term.*
Physics,	Zoology and Entomology,
Physiology,	German,
German,	Chemistry.
Chemistry.	P. M. Laboratory Work.
P. M. Laboratory Work.	

FOURTH YEAR.

Course in Agriculture.

First Term.	*Second Term.*
Comparative Anatomy,	U. S. Constitution and Political Economy,
History of Civilization,	Mineralogy and Geology,
Dairy Farming and Stock Breeding,	Cultivation of Cereals,
Logic.	Landscape Gardening,
P. M. Experimental Farming and Agricultural Botany, or	Rural Architecture and Sheep Husbandry,
	Mental and Moral Science.
*Historical Readings and Analysis.	

Course in Civil Engineering.

First Term.	*Second Term.*
Second Part of Rankine's Civil Engineering,	U. S. Constitution and Political Economy,
Logic,	Mineralogy and Geology,
Physiology (with Juniors).	Third part of Rankine's Civil Engineering,
P. M. Stereotomy, Topography and R. R. Work.	Designs and Specifications.
	P. M. Machine Drawing and Designing.

Course in Mechanical Engineering.

First Term.	*Second Term.*
Steam Engine,	Steam Engine, Designs and Specifications,
Logic,	U. S. Constitution and Political Economy,
Physiology (with Juniors).	Mineralogy and Geology.
P. M. Applied Descriptive Geometry and Machine Drawing.	P. M. Machine Drawing and Designing.

Course in Chemistry.

First Term.	*Second Term.*
Comparative Anatomy,	U. S. Constitution and Political Economy,
History of Civilization,	Mineralogy and Geology,
Logic,	Chemistry.
Chemistry.	P. M. Laboratory Work.
P. M. Laboratory Work.	

*In the course of Science and Literature the studies marked with a star are to be taken in place of those that immediately precede them in the Agricultural Course.

SPECIAL FEATURES OF THE COURSES.

The prominence given to the Natural Sciences, and the practical element associated with the studies, render the first two years exceedingly valuable, as the groundwork of whatever more specific department may be pursued.

Those who complete the course in Agriculture will have attained a good knowledge of Mathematics, French, German and English Literature, besides the studies in Natural Science that have a direct bearing upon agriculture. The study of Botany extends through nearly a year, commencing early in the spring and extending late in the autumn. General Chemistry and Physics continue through a whole year. Under Agricultural Chemistry will be considered composition of soils, relations of air and moisture to vegetable growth, chemistry of farm processes, methods of improving soils, fertilizers, and other topics which properly come under this department. This course, slightly modified so as better to adapt it to those wishing a thorough practical education for other employments, is called the course in Science and Literature. This includes mental and moral science, logic and more of general literature.

The student in Civil Engineering, having laid a good foundation of general culture in literary studies, modern languages, mathematics and natural science, in his Junior year enters upon his engineering studies, embracing the theory and practice of constructing roads, railroads, bridges, canals, dams and other structures, and has thorough instruction and practice in mechanical and topographical drawing. The afternoons are devoted to field work and drawing.

With the same instruction in general studies, those who take the course in Mechanical Engineering study the elements of mechanism, machinery and mill work, steam engines, water wheels, estimates and specifications for machinery. They are instructed to draw working plans from descriptions, models and inspection of machinery, as well as to design machines.

Shops have been fitted up in which practical instruction is given in vise work and forge work. Other branches of practical mechanics will be taught as soon as the necessary means are furnished.

The course in Chemistry includes general, analytical and agricultual chemistry. Under analytical chemistry is comprised the qualitative and quantitative analysis of minerals, alloys, earths, fertilizers and farm products. The students devote three hours a day to laboratorv practice.

LABOR.

It is a peculiarity of the college, that it makes provision for labor, thus combining practice with theory, manual labor with scientific culture. Students in this institution are required to labor a certain portion of each day, not exceeding three hours, for five days in the week.

The labor is designed to be as much as possible educational, so that every student may become familiar with all the forms of labor upon the farm and in the garden. In the lowest class the students are required to work on the farm, and they receive compensation for their labor according to their industry, faithfulness and efficiency, the educational character of the labor being also taken into accouut. The maximum amount paid is thirty cents for three hours' labor.

MILITARY INSTRUCTION.

Thorough instruction is given in Military Science by a competent officer. The instruction extends through the whole college course, and embraces personal, squad, company and battalion drill. The students are enrolled in companies under their own officers. Arms are furnished by the State. The uniform is navy blue yacht cloth, sack coat and pants, without brass buttons or trimmings that attract attention, and is required to be worn during the military exercises.

LOCATION.

The college has a pleasant and healthful location, between the villages of Orono and Stillwater, about a mile from each. Stillwater river, a tributary of the Penobscot, flows in front of the buildings, forming the western boundary of the college farm, and adding much to the beauty of the surrounding scenery.

The European and North American Railway, over which trains pass several times each day, has a station at the village of Orono. The college is within nine miles of the city of Bangor, and is consequently easily accessible from all parts of the State.

FARM AND BUILDINGS.

The college farm contains three hundred and seventy acres of land of high natural productiveness, and of great diversity of soil, and is therefore well adapted to the experimental purposes of the institution.

White Hall, the building first erected, affords excellent accommodations for a limited number of students. The lower rooms of this building are appropriated to general and class purposes.

Brick Hall contains forty-eight rooms, and has connected with it a boarding house for students. With these buildings, the institution furnishes desirable accommodations for one hundred and twenty-five students.

The Laboratory contains two apparatus rooms, a lecture room, a cabinet, a library and weighing room, a recitation room, and rooms for analytical and other purposes, and is in all respects admirably adapted to the wants of the chemical and mineralogical departments.

APPARATUS.

The college is furnished with new and valuable apparatus for the departments of Physical Geography, Chemistry, Physics, Surveying, Civil Engineering and Mechanical Engineering, to which additions will be made as the exigencies of the several departments require. Models have been obtained from the United States Patent Office, and others have been purchased, that serve for purposes of instruction.

LIBRARY.

The library already contains 3,777 volumes, some of which have been obtained by purchase, while others have been kindly given to the college. The volumes secured through the liberality of Governor Coburn, and the gifts of other friends, are a valuable addition to this department. It is earnestly hoped that so important an auxiliary in the education of students in the college will not be disregarded by the people of the State, and that liberal contributions will be made to the library, not only of agricultural and scientific works, but also of those profitable to the general reader.

READING ROOM.

The reading room is supplied with a number of valuable newspapers and periodicals. Grateful acknowledgment is herewith made for the following named papers, generously sent by the proprietors to the college:

Agricultural Gazette, American Cultivator, American Sentinel, Bangor Weekly Courier, Aroostook Valley Sunrise, Camden Journal, Chronicle, Dexter Gazette, Eastern Argus, Eastport Sentinel, Gospel Banner, Kennebec Journal, Lincoln County News, Lewiston Gazette, Maine Farmer, Maine Standard, New England Farmer, N. Y. Observer, North Star, Official Gazette U. S. Patent Office, Oxford Democrat, Patten Tribune, Rockland Weekly Courier, Piscataquis Observer, Somerset Reporter, York County Independent, Zion's Herald, Bangor Daily Whig and Courier, Brackett's Bulletin, The New Religion, Portland Transcript.

The following are furnished by subscription:

American Agriculturist, American Naturalist, American Journal of Science and Art, American Architect and Builder, Appleton's Journal, Atlantic Monthly, Boston Journal of Chemistry, Chemical News, Engineering Magazine, Gardeners' Monthly, Harper's Monthly, Harper's Weekly, International Review, Journal Royal Agricultural Society, England, Journal Franklin Institute, London Punch, Lippincot's Magazine, Leslie's Illustrated News, Popular Science Monthly, Poultry World, Live Stock Journal, Scribner's Monthly, Springfield Republican, Scientific Farmer, Agricultural Gazette, Burlington Hawkeye, Chicago Inter-Ocean, Toledo Blade, Railroad Gazette, Boston Daily Journal, Fairfield Chronicle.

CABINET.

Rooms have been fitted up with cases of minerals, and specimens of natural history, and several hundred specimens have been presented to the college. The valuable private cabinets of Prof. C. H. Fernald and President C. F. Allen are placed in these rooms, and are accessible to the students. All specimens presented will be properly credited and placed on exhibition. Rocks illustrating the different geological formations, and minerals found within the State, are particularly solicited. Additions have been made during the past year.

LITERARY SOCIETIES.

Flourishing societies have been organized by the students of the college, which hold weekly meetings for declamations, discussions, and other literary exercises.

PUBLIC WORSHIP.

All students are required to attend daily prayers at the college, and public worship on the Sabbath at some one of the neighboring churches, unless excused by the President.

EXPENSES.

Tuition is free to students residing within the State. Those from other States will be charged twelve dollars per term. Rooms are free. All bedding and furniture must be supplied by the students, who will also furnish their own lights. Board, washing and fuel will be furnished. The price of board is two dollars and sixty cents per week; washing averages sixty cents per dozen. These bills, with those for incidental expenses, are payable, one-half at the commencement and the remainder at or before the close of each term.

The terms are so arranged that the long vacation occurs in the winter, that students may have an opportunity to teach during that time. The summer vacation is in the haying season, when farm labor is most profitable. By availing themselves of the opportunities thus afforded, together with the allowance for labor on the college farm, industrious and economical students can cancel the greater part of their college expenses.

GRADUATES.

CLASS OF 1872.

Name and Occupation.	Residence.
Benjamin F. Gould, C. E., Farmer	San Juan, California.
George E. Hammond, C. E., Civil Engineer and Contractor	Elliot.
Heddle Hilliard, C. E., Civil Engineer	Grand Southern R. R., N. B.
Edwin J. Haskell, B. S., Manufacturer	Saccarappa, Haskell Silk Co.
Eber D. Thomas, B. S., Civil Engineer	Grand Rapids, Mich.
George O. Weston, B. S., Farmer	Norridgewock.

CLASS OF 1873.

Russell W. Eaton, C. E., Mill Engineer	Providence, R. I.
George H. Hamlin, C. E., Professor	Maine State College, Orono.
Fred W. Holt, C. E., Civil Engineer	Grand Southern R. R., N. B.
Charles E. Reed, C. E., Assistant Editor Free Press	Detroit, Mich.
John M. Oak, B. S., Merchant	Garland.
Frank Lamson Scribner, B. S., Teacher	Girard College, Philadelphia.
Harvey B. Thayer, B. S., Apothecary	Monson.

CLASS OF 1874.

William A. Allen, C. E., Civil Engineer	Portland, M. C. R. R.
Walter Balentine, B. S., Student of Agricultural Chemistry	Germany.
William H. Gerrish, B. S., M. D	Portland.
John I. Gurney, B. S., Farmer	Dorchester, Mass.
David R. Hunter, B. S., Teacher	Comptonville, Cal.
Louise H. Ramsdell, B. S., (Mrs. Milton D. Noyes)	Atkinson.

CLASS OF 1875.

Solomon W. Bates, C. E., Civil Engineer	Waterville.
Wilbur A. Bumps, C. E., Apothecary	Dexter.
Samuel H. Clapp, C. E., Superintendent of Schools	Comptonville, Cal.
Lewis F. Coburn, C. E., Teacher	California.
Charles F. Durham, C. E., Superintendent of Schools	Crescentville, Cal.
Edson F. Hitchings, C. E., Farmer	Waterville.
Allen G. Mitchell, C. E., Civil Engineer	Madison.
George M. Shaw, C. E., Teacher	Comptonville, Cal.
* Edgar A. Work, C. E	U. S. Military Academy, West Point.
Edward D. Mayo, M. E., Teacher	Clear Water, Minn.

* Deceased.

Name and Occupation.	Residence.
Albert E. Mitchell, M. E., Machinist	Pennsylvania R. R., Pittsburg, Penn.
Minott W. Sewall, M. E., Machinist	Philadelphia, Penn.
Charles F. Colesworthy, B. S., Teacher	California.
Alfred M. Goodale, B. S., Machinist	Saco Water Power Co., Saco.
Whitman H. Jordan, B. S., Agricultural Chemistry	Wesleyan University.
* Fred L. Moore, B. S	California.
Luther W. Rogers, B. S., Merchant	Stillwater.
Wesley Webb, B. S., Farmer	Unity.

CLASS OF 1876.

Abbott, Edmund, B. S., M. D	New York City.
Allen, Charles Plummer, B. S., Lawyer	Presque Isle.
Beckler, Eldridge Harlow, C. E., Civil Engineer	Empire City, Minn.
Bisbee, Fred Milton, C. E., Engineer	A. T. & S. F. R. R., Topeka, Kan.
Blanding, Edward Mitchell, B. S., Local Editor Commercial	Bangor.
Brainard, Charles Marcellus, B. S., Lumberman	Skowhegan.
Buker, George Haskell, B. S., Apothecary	Searsport.
Cowan, Florence Helen, B. S., Teacher	Orono.
Crosby, Oliver, M. E., Foreman of Machine Shop	St. Paul, Minn.
Cyr, Vetal, B. S., Teacher	Fort Kent.
Dike, James Edward, C. E., Book Agent	Boston, Mass.
Dike, Willis Oliver, B. S., Farmer	Sebago.
Estabrooke, Horace Melvyn, B. S., Teacher	Pembroke.
Farrington, Arthur Manly, B. S., Veterinary Student	Cornell University.
Foss, George Obed, C. E., Draughtsman	Red Wing, Minn.
Haines, William Thomas, B. S., Lawyer	Hallowell.
Hamilton, Henry Fairfield, B. S., D. D. S	Boston, Mass.
Haskell, Newall Prince, B. S	New Gloucester.
How, Edward Stevens, M. E., Book-keeper	Portland.
Hubbard, Philip Wadsworth, B. S., Apothecary	Farmington.
Jones, Samuel Messer, M. E	Boston.
Lewis, Albert Augustus, B. S., Teacher	Orono.
Long, Herbert Augustine, M. E., Farmer	Bluehill.
Lothrop, Luther Ramsdell, C. E., Teacher	West Gardiner.
Martin, Nelson Hussey, B. S., Teacher and Superintendent Schools	Fort Fairfield.
Oak, Charles Edson, M. E., Surveyor	Caribou.
Parks, George Daniel, C. E., Civil Engineer	Richmond.
Peirce, Hayward, B. S., Granite Works	Frankfort.
Reed, Frank Radford, C. E., Farmer	Roxbury.
Reynolds, Henry Jones, B. S., Druggist	Dennysville.
Rogers, Charles Wilson, M. E., Machinist	Charlestown, Mass.
Stevens, William Lewis, M. E., Agent for Flouring Mills	Minneapolis, Minn.
Williams, John Howard, B. S., Teacher	Milo.

* Deceased.

CLASS OF 1877.

Name and Occupation.	Residence.
Blackinton, Alvah DeOrville, B. C. E., City Engineer	Rockland.
Burns, Robert Bruce, B. C. E., Teacher	Fort Fairfield.
Dakin, Eugene Herbert, B. S	Bangor.
Danforth, Edward Franklin, B. S., Law Student	Boston, Mass.
Elkins, Augustus Jerome, B. M. E., Draughtsman	Oldtown.
Emery, Alicia Town, B. S., Teacher	Orono.
Gould, Samuel Wadsworth, B. S., Merchant	Hiram.
Lunt, Joseph Cony, B. C. E., Teacher	Benton
Phillips, Fred Foster, B. S., Farmer	Hermon.
Shaw, Samuel, B. M. E., Teacher	Augusta.
Stone, Frank Pierce, B. S., Farmer	Jay.
Stevens, Thomas Jefferson, B. M. E., Teacher	Auburn.
Sturgis, George Eugene, B. C. E., Apothecary	San Francisco, Cal.
Towne, Charles Elmer, B. C. E., Teacher	East Dover.
Weeks, James Walter, B. M. E., Military Instructor	Castine.
Weeks, Nellie Estelle, B. S., Teacher	Orono.
Webster, Ivan Eldorus, B. S., Lumberman	Orono.

CLASS OF 1878.

Brown, Emma, B. S., Teacher	Orono.
Caldwell, A. J., B. M. E., Machinist	New York City.
Chamberlain, C. C., B. S., Teacher	Foxcroft.
Fernald, G. E., B. C. E., Teacher	Elliot.
Heald, James, B. S	Orono.
Locke, John, B. S., Merchant	Fryeburg.
Oakes, F. J., B. C. E	Oldtown.
Patterson, J. C., B. C. E	Dexter.
Tripp, W. E., B. C. E., Teacher	Elliot.
Walker, E. C., B. S., Law Student	Lovel.
Webster, O. C., B. S., Teacher	Augusta.

OFFICERS

OF THE

ASSOCIATE ALUMNI.

PRESIDENT.

WHITMAN H. JORDAN, New Gloucester.

VICE PRESIDENT.

WILLIAM T. HAINES, Hallowell.

RECORDING SECRETARY.

RUSSELL W. EATON, Providence, R. I.

CORRESPONDING SECRETARY.

WILBUR A. BUMPS, Dexter.

TREASURER.

PHILIP W. HUBBARD, Farminglon.

CLASS SECRETARIES.

1872. E. J. HASKELL, Saccarppa.
1873. J. M. OAK, Garland.
1874. WALTER BALENTINE, Waterville.
1875. WESLEY WEBB, Unity.
1876. A. M. FARRINGTON, Orono.
1677. R. B. BURNS, Fort Fairfield.

CALENDAR.

1879—Feb. 11.	Tuesday, Second Term commences.
June 19, 20.	Thursday and Friday, Examinations.
" 21.	Saturday, Prize Declamation by Sophomores.
" 22.	Sunday, Baccalaureate Address.
" 23.	Monday, Prize Essays by Juniors.
" 25.	Wednesday, Commencement.
" 26.	Thursday, Examination of Candidates for Admission.
	Vacation of five weeks.
Aug. 6.	Tuesday, Examination of Candidates for Admission.
	Term commences.
Nov. 19, 20.	Wednesday and Thursdny, Examination.
	Vacation of eleven weeks.
1880—Feb. 10.	Tuesday, Second Term commences.

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